



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

**MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION**

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
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[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Kemper System America, Inc.**  
**1200 North America Drive**  
**West Seneca, NY 14224**

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Kemperol Membrane Waterproofing System

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 14-1202.12 and consists of pages 1 through 19.

The submitted documentation was reviewed by Jorge L. Acebo.



**NOA No.: 16-0127.01**  
**Expiration Date: 02/05/20**  
**Approval Date: 02/11/16**  
**Page 1 of 19**

## WATERPROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** Waterproofing  
**Materials:** Polyurethane  
**Maximum Design Pressure:** -502.5 psf.

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Kemperol BRM	2.2 gal. / 10 kg. work pack 4.4 gal. / 20 kg. work pack	Proprietary	Two-part (catalyst included) polyester fluid applied membrane.
Kempertec EP Primer	1.24 gal. / 5 kg. work pack .24 gal. / 1 kg. work pack	Proprietary	Two-part solvent free epoxy primer.
Kemperol 165 Fleece	164 ft. long rolls of various widths.	N/A	Non-woven needle-punched polyester mat.
Kemperol 2K-PUR	0.49 gal. / 2.5 kg. work pack 0.98 gal. / 5.0 kg. work pack 2.46 gal. / 12.5 kg. work pack	Proprietary	Two-component, polyurethane fluid applied membrane.

### PRODUCTS MANUFACTURED BY OTHERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Concrete Tile	1'x1'x 1" thick	ASTM C902	4000 psi Min. Compressive strength, 5% max water absorption.	Generic
Clay Tile	1'x1'x ½" thick	ANSI A137.1	Clay exterior grade tiles	Generic
Concrete Pavers	2' x 2' x 2" thick	ASTM C902	Cement exterior grade paver.	Generic
Polymer Modified Concrete Mix	Various	ANSI A118.4	A high performance polymer modified dry set mortar.	Generic
Mortar Mix	Various	ASTM C270 Type S	General all-purpose mortar with higher flexural bond strength	Generic
Millennium One-Step Foamable Adhesive	Various	Proprietary	A highly elastomeric, one-step, all-purpose, foamable adhesive.	Adco Products, Inc. d.b.a. Royal Adhesives & Sealants, Inc.
OlyBond 500 Green Adhesive	Various	Proprietary	Polyurethane Foam Adhesive	OMG, Inc.
Styrofoam Plazamate	Various Min. 60 psi	ASTM C578	Extruded Polystyrene Insulation	The Dow Chemical Company
Foamular 600, Foamular 600RB	Various Min. 60 psi	ASTM C578	Extruded Polystyrene Insulation	Owens Corning



**EVIDENCE SUBMITTED:**

<b><u>Test Agency</u></b>	<b><u>Test Identifier</u></b>	<b><u>Test Specification</u></b>	<b><u>Date</u></b>
IRT-Arcon Inc.	03-012/03-013/03-014/03-015 03-005/03-006/03-007/03-008/03-010	TAS 114-D	11/12/03 04/11/03
Factory Mutual	OD6A6.AM 3009502 OD646.AM 3015444 3023458	FM 4470 FM 4470 FM 4470 FM 4450 FM 4470	06/14/01 12/21/00 04/13/00 07/11/03 10/20/05
Underwriters Laboratories Inc.	R13930	UL 790	08/07/14
Underwriters Laboratories, Inc.	R8811	UL 723	12/20/13
RADCO	RAD-5341	ASTM C578	02/06/14
PRI Asphalt Technologies	IRT-016-02-01	TAS 114-I ASTM D 5147 ASTM D 5602 ASTM D 4073	08/09/04
PRI Construction Materials Technologies, LLC	KPS-001-02-01	ASTM C 836 ASTM C 957 ASTM C 1305 ASTM D 570 ASTM D 573 ASTM D 751 ASTM D 1204 ASTM D 2204 ASTM D 4073 ASTM D 4798 ASTM D 5147 ASTM D 5602 ASTM E 96	08/14/14
PRI Construction Materials Technologies LLC	KPS-005-02-01	TAS 114-I ASTM D5147 ASTM D5602 ASTM D4073	11/05/15
Atlantic & Caribbean Roof Consulting, LLC	ACRC 09-009 ACRC 09-006 ACRC 09-007 ACRC 09-010 ACRC 09-011 ACRC 09-008	TAS 114-D TAS 114-D TAS 114-D TAS 114-D TAS 114-D TAS 114-D	09/03/09 09/02/09 09/02/09 09/04/09 09/04/09 09/03/09



## APPROVED APPLICATIONS:

<b>Deck Type 3:</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(1):</b>	Kemperol System, Top slab
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer shall be applied to prepared concrete deck at a minimum rate of 1.5gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Apply Kemperol BRM Resin with roller or brush to primed surface at a minimum rate of 4.5 gal./100 sq. ft. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal./100 sq. ft. to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Structural Concrete Slab, minimum 2500 psi, with a minimum 3” thickness applied in accordance with applicable Building Code.
<b>Maximum Design Pressure:</b>	-377.5 psf. (See General Limitaion #9)



<b>Deck Type 3:</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(2):</b>	Kemperol System, Top slab
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Kemperol 2K-PUR two component resin is roller applied over the cured EP Primer/Sand at a rate of 4.5 gal./100 sq. ft. Immediately, Kemperol 165 Fleece membrane is embedded into the resin. An additional application of Kemperol 2K-PUR resin is applied at a rate of 2 gal./100 sq. ft. on top of the Kemperol 165 Fleece to complete saturation. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Concrete sand/cement slab, minimum 5000 psi, with a minimum 2" thickness applied in accordance with applicable Building Code.
<b>Maximum Design Pressure:</b>	<b>-502.5 psf.</b> (See General Limitaion #9)

<b>Deck Type 3:</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 3000 psi, dual slab construction (roof plaza decks)
<b>System Type F(3):</b>	Kemperol System, Top slab
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Kemperol 2K-PUR two component resin is roller applied over the cured EP Primer/Sand at a rate of 4.5 gal./100 sq. ft. Immediately, Kemperol 165 Fleece membrane is embedded into the resin. An additional application of Kemperol 2K-PUR resin is applied at a rate of 2 gal./100 sq. ft. on top of the Kemperol 165 Fleece to complete saturation. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Structural concrete, minimum 3000 psi, with a minimum 3” thickness applied in accordance with applicable Building Code.
<b>Maximum Design Pressure:</b>	<b>-502.5 psf.</b> (See General Limitaion #9)

<b>Deck Type 3I</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(4):</b>	Kemperol System, Insulation, Top slab
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Apply Kemperol BRM Resin with roller or brush to primed surface at a minimum rate of 4.5 gal./100 sq. ft. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal./100 sq. ft. to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Insulation:</b>	Styrofoam Plazamate Extruded Polystyrene Insulation adhered in Millennium One-Step Foamable Adhesive with ½” to ¾” wide ribbons at 6” o.c. to the surfaced membrane.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Structural Concrete Slab, minimum 2500 psi, with a minimum 3” thickness applied in accordance with applicable Building Code to the insulation.
<b>Maximum Design Pressure:</b>	<b>-152.5 psf.</b> (See General Limitaion #9)

<b>Deck Type 3I</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 3000 psi, dual slab construction (roof plaza decks)
<b>System Type F(5):</b>	Kemperol System, Insulation, Top slab
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Kemperol 2K-PUR two component resin is roller applied over the cured EP Primer/Sand at a rate of 4.5 gal./100 sq. ft. Immediately, Kemperol 165 Fleece membrane is embedded into the resin. An additional application of Kemperol 2K-PUR resin is applied at a rate of 2 gal./100 sq. ft. on top of the Kemperol 165 Fleece to complete saturation. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Roller apply a coat of Kempertec EP Primer to the cured membrane at a minimum rate of 1.5 gal./100 sq. ft. Silica sand (.4 -.8 mm) is immediately broadcast into the wet primer at the rate of 30 lbs./100 sq. ft.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Insulation:</b>	Minimum 3” thick Owen Corning Foamular 600 Extruded Polystyrene insulation is installed over the Kemperol 2K-PUR Waterproofing Membrane. Insulation is adhered with OlyBond 500 Green Insulation Adhesive with ½” to ¾” wide beads spaced 6 “ o.c.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Structural concrete, minimum 2500 psi, with a minimum 3” thickness applied in accordance with applicable Building Code to the insulation.
<b>Maximum Design Pressure:</b>	<b>-502.5 psf.</b> (See General Limitaion #9)



<b>Deck Type 3I</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(6):</b>	Kemperol System, Insulation, Concrete Tile
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Apply Kemperol BRM Resin with roller or brush to primed surface at a minimum rate of 4.5 gal./100 sq. ft. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal./100 sq. ft. to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Insulation:</b>	Styrofoam Plazamate Extruded Polystyrene Insulation adhered in Millennium One-Step Foamable Adhesive with ½” to ¾” wide ribbons at 6” o.c. to the surfaced membrane.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Concrete tile, (4000 psi) with minimum dimensions of 12” x 12” by 1” thick adhered in Millennium One-Step Foamable Adhesive with ½” to ¾” wide ribbons at 6” o.c. directly to the insulation.
<b>Maximum Design Pressure:</b>	-280 psf. (See General Limitaion #9)

<b>Deck Type 3</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(7):</b>	Kemperol System, Clay Tile
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Apply Kemperol BRM Resin with roller or brush to primed surface at a minimum rate of 4.5 gal./100 sq. ft. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal./100 sq. ft. to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Clay tile with minimum dimensions of 12" x 12" by 1/2" thick adhered in full bed of polymer modified mortar/adhesive to the surfaced membrane.
<b>Maximum Design Pressure:</b>	-365 psf. (See General Limitaion #9)

<b>Deck Type 3</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 3000 psi, dual slab construction (roof plaza decks)
<b>System Type F(8):</b>	Kemperol System, Clay Tile
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Kemperol 2K-PUR two component resin is roller applied over the cured EP Primer/Sand at a rate of 4.5 gal./100 sq. ft. Immediately, Kemperol 165 Fleece membrane is embedded into the resin. An additional application of Kemperol 2K-PUR resin is applied at a rate of 2 gal./100 sq. ft. on top of the Kemperol 165 Fleece to complete saturation. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Roller apply a coat of Kempertec EP Primer to the cured membrane at a minimum rate of 1.5 gal./100 sq. ft. Silica sand (.4 -.8 mm) is immediately broadcast into the wet primer at the rate of 30 lbs./100 sq. ft.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Clay tile with minimum dimensions of 12" x 12" by 1/2" thick adhered in a full bed of polymer modified thin set mortar installed over the Kemperol water proofing membrane.
<b>Maximum Design Pressure:</b>	<b>-502.5 psf.</b> (See General Limitaion #9)

<b>Deck Type 3</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(9):</b>	Kemperol System, Concrete Tile
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Apply Kemperol BRM Resin with roller or brush to primed surface at a minimum rate of 4.5 gal./100 sq. ft. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal./100 sq. ft. to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Concrete tile, (4000 psi) with minimum dimensions of 12" x 12" by 1" thick adhered in Millennium One-Step Foamable Adhesive with ½" to ¾" wide ribbons at 6" o.c. directly to the membrane.
<b>Maximum Design Pressure:</b>	-377.5 psf. (See General Limitaion #9)

<b>Deck Type 3</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 3000 psi, dual slab construction (roof plaza decks)
<b>System Type F(10):</b>	Kemperol System, Concrete Pavers
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Kemperol 2K-PUR two component resin is roller applied over the cured EP Primer/Sand at a rate of 4.5 gal./100 sq. ft. Immediately, Kemperol 165 Fleece membrane is embedded into the resin. An additional application of Kemperol 2K-PUR resin is applied at a rate of 2 gal./100 sq. ft. on top of the Kemperol 165 Fleece to complete saturation. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Roller apply a coat of Kempertec EP Primer to the cured membrane at a minimum rate of 1.5 gal./100 sq. ft. Silica sand (.4 -.8 mm) is immediately broadcast into the wet primer at the rate of 30 lbs./100 sq. ft.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Concrete pavers, with minimum dimensions of 2' x 2' by 2" thick are fully adhered in 1/2" bed of mortar mix over the finished Kemperol 2K-PUR waterproofing membrane.
<b>Maximum Design Pressure:</b>	-420 psf. (See General Limitaion #9)

<b>Deck Type 3I</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 3000 psi, dual slab construction (roof plaza decks)
<b>System Type F(11):</b>	Kemperol System, Insulation, Top slab
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Kemperol 2K-PUR two component resin is roller applied over the cured EP Primer/Sand at a rate of 4.5 gal./100 sq. ft. Immediately, Kemperol 165 Fleece membrane is embedded into the resin. An additional application of Kemperol 2K-PUR resin is applied at a rate of 2 gal./100 sq. ft. on top of the Kemperol 165 Fleece to complete saturation. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Roller apply a coat of Kempertec EP Primer to the cured membrane at a minimum rate of 1.5 gal./100 sq. ft. Silica sand (.4 -.8 mm) is immediately broadcast into the wet primer at the rate of 30 lbs./100 sq. ft.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Insulation:</b>	Minimum 3" thick Owen Corning Foamular 600 Extruded Polystyrene insulation is installed over the Kemperol 2K-PUR Waterproofing Membrane. Insulation is adhered with OlyBond 500 Green Insulation Adhesive with ½" to ¾" wide beads spaced 6" o.c.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Concrete sand/cement slab, minimum 5000 psi, with a minimum 2" thickness applied over the insulation in accordance with applicable Building Code.
<b>Maximum Design Pressure:</b>	<b>-472.5 psf.</b> (See General Limitaion #9)

<b>Deck Type 3I</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(12):</b>	Kemperol System, Insulation, Top slab
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Apply Kemperol BRM Resin with roller or brush to primed surface at a minimum rate of 4.5 gal./100 sq. ft. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal./100 sq. ft. to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Insulation:</b>	Foamular 600 Sanded face extruded polystyrene insulation adhered in Millennium One-Step Foamable Adhesive with ½” to ¾” wide ribbons at 6” o.c. to the surfaced membrane.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Structural Concrete Slab, minimum 2500 psi, with a minimum 3” thickness applied in accordance with applicable Building Code to the insulation.
<b>Maximum Design Pressure:</b>	-441 psf. (See General Limitaion #9)

<b>Deck Type 3I</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(13):</b>	Kemperol System, Insulation, Top slab
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Apply Kemperol BRM Resin with roller or brush to primed surface at a minimum rate of 4.5 gal./100 sq. ft. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal./100 sq. ft. to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water may be maintained for a period longer than 24 hours if required.
<b>Insulation:</b>	Foamular 600RB Grooved face extruded polystyrene insulation adhered in Millennium One-Step Foamable Adhesive with 1/2" to 3/4" wide ribbons at 6" o.c. to the surfaced membrane.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Structural Concrete Slab, minimum 2500 psi, with a minimum 3" thickness applied in accordance with applicable Building Code to the insulation.
<b>Maximum Design Pressure:</b>	-388 psf. (See General Limitaion #9)



<b>Deck Type 3I</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(14):</b>	Kemperol System, Insulation, Clay Tile
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Apply Kemperol BRM Resin with roller or brush to primed surface at a minimum rate of 4.5 gal./100 sq. ft. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal./100 sq. ft. to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Insulation:</b>	Foamular 600 Sanded face extruded polystyrene insulation adhered in Millennium One-Step Foamable Adhesive with ½” to ¾” wide ribbons at 6” o.c. to the surfaced membrane.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Clay tile with minimum dimensions of 12” x 12” by ½” thick adhered in full bed of polymer modified mortar/adhesive to the insulation.
<b>Maximum Design Pressure:</b>	-320 psf. (See General Limitaion #9)

<b>Deck Type 3I</b>	Concrete Decks, Roof Plaza Decks
<b>Deck Description:</b>	Min. 2500 psi, dual slab construction (roof plaza decks)
<b>System Type F(15):</b>	Kemperol System, Insulation, Clay Tile
<b>Substrate Preparation:</b>	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
<b>Primer:</b>	Kempertec EP Primer is roller applied at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately onto the wet primer at a rate of 50 lbs./100 sq. ft.
<b>Membrane:</b>	Apply Kemperol BRM Resin with roller or brush to primed surface at a minimum rate of 4.5 gal./100 sq. ft. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal./100 sq. ft. to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
<b>Surfacing:</b>	Apply a coat of EP primer at a minimum rate of 1.5 gal./100 sq. ft. with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs./100 sq. ft. to the cured membrane surface.
<b>Integrity Test:</b>	Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water maybe maintained for a period longer than 24 hours if required.
<b>Insulation:</b>	Foamular 600RB Grooved face extruded polystyrene insulation adhered in Millennium One-Step Foamable Adhesive with ½” to ¾” wide ribbons at 6” o.c. to the surfaced membrane.
<b>Inspection:</b>	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
<b>Topping:</b>	Clay tile with minimum dimensions of 12” x 12” by ½” thick adhered in full bed of polymer modified mortar/adhesive to the insulation.
<b>Maximum Design Pressure:</b>	-327 psf. (See General Limitaion #9)

## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. A copy of the integrity test report described herein in accordance with ASTM D5957 shall be provided to the Building Official for review at time of final inspection.
3. Contractor shall submit to the Building Official for review the system specifications and details. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
4. Flashings shall be installed according to the manufacturers published standard details, specific details, approved by Kemper System and shall be submitted to the Building Official for review.
5. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved and licensed by Kemper System. Kemper System shall supply a list of approved applicators to the authority having jurisdiction.
6. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and the wind load requirements of applicable Building Code.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

**END OF THIS ACCEPTANCE**

